## Undergraduate Level Course Requirements

At least 34 credit hours in the department including:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3450:221</td>
<td>Analytic Geometry-Calculus I</td>
<td>4.0</td>
</tr>
<tr>
<td>3450:222</td>
<td>Analytic Geometry-Calculus II</td>
<td>4.0</td>
</tr>
<tr>
<td>3450:223</td>
<td>Analytic Geometry-Calculus III</td>
<td>4.0</td>
</tr>
<tr>
<td>3450:307</td>
<td>Fundamentals of Advanced Mathematics</td>
<td>3.0</td>
</tr>
<tr>
<td>3450:312</td>
<td>Linear Algebra</td>
<td>3.0</td>
</tr>
<tr>
<td>3450:335</td>
<td>Introduction to Ordinary Differential Equations</td>
<td>3.0</td>
</tr>
<tr>
<td>3450:411</td>
<td>Abstract Algebra I</td>
<td>3.0</td>
</tr>
<tr>
<td>3450:512</td>
<td>Abstract Algebra II***</td>
<td>3.0</td>
</tr>
<tr>
<td>3450:522</td>
<td>Advanced Calculus II***</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Choose at least one from the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3470:450</td>
<td>Probability</td>
<td>3.0</td>
</tr>
<tr>
<td>3470:451</td>
<td>Theoretical Statistics I</td>
<td>3.0</td>
</tr>
<tr>
<td>3470:461</td>
<td>Applied Statistics</td>
<td>4.0</td>
</tr>
</tbody>
</table>

## Undergraduate Electives

Complete 9 credits of approved 300/400—level courses in Mathematics, Applied Mathematics, Statistics, or Computer Science.

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**Notes:**

1. Students interested in graduate study should include the following courses in their program: 3450:412, 422, 445, 425.
2. The student is required to take 47 hours of 300/400—level courses not including general education courses or workshops.
3. Students seeking certification in secondary education to teach mathematics must complete the following electives: 3450:401, 441; 3470:450, 461.
4. Students interested in Computer Science should include the following electives: 3460:210, 316, 3450:415, 427 and the choice of 3450:413 or 3450:410.
5. This program of study and the general education evaluation are effective for 5 years from date of signature. If there is a change in a major or a transfer to another college, a new program of study must be drawn up. A minimum of 128 earned, approved semester credit hours are needed for graduation.

*This course will count towards the requirement of 47 credits of 300/400 level courses.

**Subject to approval by the Dean, up to six credits of courses prerequisite to those taken at the 300/400 levels will count towards the 47-hour requirement in Note 2. These approved courses count as 300/400 level electives.

*** These courses are to be applied to the requirement of the bachelor’s and master’s degree.

## Graduate Level Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3450:510</td>
<td>Advanced Linear Algebra</td>
</tr>
<tr>
<td>Or 3450:513</td>
<td>Theory of Numbers</td>
</tr>
<tr>
<td>3450:621</td>
<td>Real Analysis</td>
</tr>
<tr>
<td>Or 3450:625</td>
<td>Analytic Function Theory</td>
</tr>
<tr>
<td>3450:636</td>
<td>Advanced Combinatorics and Graph Theory</td>
</tr>
<tr>
<td>3450:692</td>
<td>Seminar in Mathematics</td>
</tr>
</tbody>
</table>

One Statistics course selected from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3470:550</td>
<td>Probability</td>
</tr>
<tr>
<td>3470:551</td>
<td>Theoretical Statistics I</td>
</tr>
<tr>
<td>3470:561</td>
<td>Applied Statistics I</td>
</tr>
<tr>
<td>3470:651</td>
<td>Probability and Statistics</td>
</tr>
</tbody>
</table>

**Electives 6-9 credits**

Advisor’s Signature Date

Student’s Signature Date

Department Chair’s Signature Date

COMMENTS

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Foreign Language has four specific courses and Sign Language has five specific courses. Both options total 14 credits for the language requirement.

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**General Education Requirements: See Other Side**

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## General Education Requirement

1. **English Composition (7 credits)**
   - 3300:111
   - 3300:112

2. **Mathematics (3 credits)**
   - 3450: ____________
   - or
   - 3470: ____________

3. **Natural Science (8 credits)**
   (Minimum of 2 courses, one of which has a lab component, selected from two different departments)
   - Biology ____________
   - Chemistry ____________
   - or
   - Geology ____________
   - or
   - Physics ____________

4. **Oral Communication (3 credits)**
   - 7600:105
   - or
   - 7600:106

5. **Physical Education/Wellness (1 credit)**
   - 5540: ____________
   - or
   - 5540: ____________

6. **Social Sciences (6 credits)**
   (Courses selected from two different sets)
   - Economics ____________
   - Geography ____________
   - US Govt/Politics ____________
   - Psychology ____________
   - Sociology/Anthropology ____________
   - United States History ____________
   - Social Science/Technology ____________

7. **Humanities (10 credits – 3 courses)**
   - 3400:210 ____________
   - and
   - 2 courses selected from two different departments
   - Fine Arts ____________
   - or
   - Philosophy/Classics ____________
   - or
   - Literature ____________
   - or
   - 3400:211 ____________

8. **Area Studies and Diversity (4 credits – 2 courses)**
   - ____________
   - ____________

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